

Point-slope Form

Sheet 5

Write the equation of the line whose slope and the point through which it passes are given. Express the equation in point-slope form.

1) $(-5, 3)$ and slope $m = -7$

2) $(-2, 1)$ and slope $m = 8$

3) $(8, -2)$ and slope $m = -5$

4) $(-3, -4)$ and slope $m = \frac{5}{4}$

5) $(-9, 5)$ and slope $m = 6$

7) $(-6, 0)$ and slope $m = 1$

9) $(-7, -8)$ and slope $m = 0$

10) $(4, -9)$ and slope $m = -3$

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1) $(-5, 3)$ and slope $m = -7$

2) $(-2, 1)$ and slope $m = 8$

$$y - 3 = -7(x + 5)$$

$$y - 1 = 8(x + 2)$$

3) $(8, -2)$ and slope $m = -5$

4) $(-3, -4)$ and slope $m = \frac{5}{4}$

$$y + 2 = -5(x - 8)$$

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5) $(-9, 5)$ and slope $m = 6$

$$y - 5 = -2(x + 9)$$

7) $(-6, 0)$ and slope $m = 1$

$$y = -\frac{9}{5}(x + 6)$$

$$y - 4 = x$$

9) $(-7, -8)$ and slope $m = 0$

10) $(4, -9)$ and slope $m = -3$

$$y + 8 = 0$$

$$y + 9 = -3(x - 4)$$